

Office cum Storage Building of the Directorate of Census Operations (DCO)

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Location			:	Guwahati, Assam
Site Area			:	4,015.00 m ²
Built up Area	1		:	2,408.00 m ²
Typology			:	Commercial
SVAGRIHA F	Rating		:	3 Star Rating
Year of com	pletion		:	2021

The following strategies were adopted to reduce building impact on the natural environment:

Landscape:

• 47 new native trees have been planted on site.

Architecture & Energy:

- 66.03% of the total living area is day-lit.
- LPD of the project is 4.39 W/m², which is lower than the ECBC specified limit of 10.80 W/m² for office buildings.
- Thermal efficiency of the building envelope is 354.34 sq.ft/TR, which is higher than the final benchmark of 325 sq.ft/TR.

The water and Waste:

- Reduction of 73.92% from the SVAGRIHA base case has been demonstrated in the landscape water demand.
- Rain water storage tank of capacity 5,500 litres has been constructed on site.
- STP of MBBR technology of 20 kLD capacity has been installed in the project.

Transformation (1997) Sustainable Building Materials:

- Fly ash bricks for walling in the project.
- PSC (Portland Slag Cement) with slag replacing 48% cement by weight has been used in plaster and masonry mortar.
- · Low VOC paints, adhesives & sealants have been used in the project.

Transformation (1997) Sustainable Building Materials:

- PPC has been used for 100% structural concrete, masonry mortar and plaster.
- Low VOC and lead free paints have been used to maintain good indoor air quality.
- Reduction of 56.44% from the SVAGRIHA base case has been demonstrated in embodied energy by using AAC blocks for constructing external and internal walls

Lifestyle:

- Dedicated resting room and toilets have been provided for service staff working in the building.
- Basic amenities such as grocery store, ATM/Bank, pharmacy, restaurant, community center, metro station are located within walkable distance from the site.
- Environmental awareness signage's have been displayed at various locations.
- Electric charging points have been provided to encourage the use of electric vehicles and reduce carbon emission.

Integrated Design Team:

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Client	:	Directorate of Census Operations, Assam
Principal Architect	:	Munish Verma and Associates
Green Building Consultant	:	I-NAT Studio LLP